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ment in the typography, while the plates are also more capacious. The whole result is a higher excellence in all the material qualities of the journal, which is well matched by the worth and importance of the articles. Professor Lankester has been most successful in his management of this publication; for, when he began, its value was so much inferior to that it now has, that the progress is remarkable. What was the not very important organ of amateurs has become a leading journal.

— The death is announced, Dec. 7, of Mr. G. W. Belfrage, an assiduous collector of insects in Bosque County, Texas.

— A new natural history society has been organized at Trenton, N.J., with Prof. Ellis A. Apgar, state superintendent of public instruction, as president, and Dr. C. C. Abbott as secretary.

— In the year 1800 there was founded at Paris a society entitled 'La société des observateurs de l'homme.' While no one would expect to find such an organization invested with all the modern improvements, a perusal of their first instructions to observers will both gratify and agreeably astonish the student of to-day. The document appears in full in the January number of the *Revue d'anthropologie*, filling twenty-two closely printed pages.

— A plate reproducing the appearance of a part of the relief-map of France, by E. Guillemin, is given in *La Nature*, Jan. 6, 1883.

— The scientific results of the fourth polar voyage (1881) of the 'William Barents' are reviewed in *Ausland*, 1883, 61-68.

— Mr. Charles Henry Hart is the author of a memoir on Lewis H. Morgan of Rochester, N.Y., read before the Numismatic and antiquarian society of Philadelphia, May 4, 1882, and published by the society. The works of Mr. Morgan are briefly reviewed; but a bibliography, which would be of great service to students of anthropology, is wanting.

— In article 189 of our 'Summary,' the reading should be: "as has been done by M. Marey in his 'photographic gun,'" and not 'photographic sun.'

RECENT BOOKS AND PAMPHLETS.

Continuations and brief papers extracted from serial literature without repagination are not included in this list. Exceptions are made for annual reports of American institutions, newly established periodicals, and memoirs of considerable extent.

Buckley, A. B. Botanical tables for the use of students. *New ed.* London, *Stanford*, 1883. 12°.

Cameron, J. Gaelic names of plants, Scottish and Irish. London, *Blackwood*, 1883. 8°.

Dutton, Clarence E. Tertiary history of the Grand Cañon district, with atlas. Wash., *Government*, 1882 (U.S. geol. surv. — monogr. ii.). Text 264 p., 42 pl. 4°; atlas 23 pl. 1°.

Echegaray, J. Teorías modernas de la física, unidad de las fuerzas materiales. 2a ser. Madrid, *Gaspar*, 1883. 238 p. 8°.

Electricidad (Lá.) — Revista general de sus progresos científicos e industriales. Dir. Rojas. Año i. n.º 1, Barcelona, Enero, 1883. 12 p. 4°. (Bimonthly.)

Garrido Villazán, A. — Topografía militar. Madrid, *Guirnalda*, 1882. 135 p., 4 pl. 8°.

Greer, Henry. A dictionary of electricity or the electrician's hand-book of reference. N.Y., *Allison*, 1883. 192 p. 12°.

Guillaume, Dr. L'eau du Seyon et la fièvre typhoïde à Neuchâtel. Rapport présenté à la direction de l'intérieur au nom de la commission d'état de santé. Neuchâtel, *imp. Borel*, 1882. 60 p., 1 pl. 8°.

Heitzmann, C. Microscopical morphology of the animal body in health and disease. With 380 original engravings. N.Y., *Vail*, 1883. 19 + 849 p. 8°.

Hoffer, R. Practical treatise of caoutchouc and gutta percha. London, *Low*, 1883. 12°.

Hopley, Catherine C. Snakes: curiosities and wonders of serpent life. London, *Griffith*, 1883. 618 p. 8°.

Hunziker, O. Die übergangszeit des volksschulwesens der Schweiz. Zürich, *Schulthess*, 1883. 8°.

— Vorgeschichte und anfänge des volksschulwesens in der Schweiz. Zürich, *Schulthess*, 1883. 8°.

Lawrence, W. T. Principles of agriculture. Stage 1-2; 2-3. Edinburgh, *Chambers*, 1883.

Marcket, W. The principal southern and Swiss health resorts; their climate and medical aspects. London, *Churchill*, 1883. 408 p. 8°.

Marshall, G. F. L., and Nicéville, L. de. — Butterflies of India, Burma and Ceylon; all the known species of rhopalocerous Lepidoptera, and allied species of neighbouring countries. Vol. i., part 1. London, *Quaritch*, 1883. 8°.

Martin, H. Newell, and Moale, William A. Handbook of vertebrate dissection. Part. ii. How to dissect a bird. N.Y., *Macmillan*, 1883. pp. 89-174. 4 pl. 12°.

McAdams, W. Antiquities of Cahokia, or Monks' Mound in Madison County, Illinois. Edwardsville, Ill., 1883. 13 p., plates. 4°.

Mendive, José. Elementos de cosmología. Valladolid, *Vinda*, 1882. 150 p. 4°.

Modet y Riglos, Andrés. Ensayo sobre el establecimiento y la conservación del catastro en España. Precedido de un prólogo de A. Blanco. Madrid, *Murillo*, 1882. 16+403 p., 3 pl. 4°.

Nasmyth, J. Engineer; an autobiography; ed. by Samuel Smiles; with a portrait by George Reid and numerous illustrations. London, *Murray*, 1883. 468 p. 8°.

Newcomb, Simon. Popular astronomy. 2d ed. revised. With 116 engravings and 5 maps of the stars. London, *Macmillan*, 1883. 596 p. 8°.

Pinner, Adolph. An introduction to the study of organic chemistry. Transl. and revised from the fifth German edition by Peter T. Austen. N.Y., *Wiley*, 1883. 19+403 p. 16°.

Pocock, R. The Gravesend historian, naturalist, antiquarian, botanist and printer; by George M. Arnold. London, *Low*, 1883. 276 p. 8°.

Report of the Smoke abatement committee, 1882; with reports of the jurors of the exhibition at South Kensington, and reports of the testing engineer, to which are added the official reports on the Manchester exhibition, 76 plates of illustrations, and 34 tables of results of tests of heating and cooking grates and stoves, steam boilers, appliances, fuels, etc. London, *Smith & E.*, 1883. 4°.

Ridsdale, B. Scenes and adventures in great Namaqualand. London, *Woolmer*, 1883. 294 p. 8°.

Ridsdale, C. H. Chemical percentage tables and laboratory calculation. London, *Lockwood*, 1883. 80 p. 8°.

Spencer, Herbert. Education, intellectual, moral, and physical. *New ed.* London, *Williams & Norgate*, 1883. 168 p. 12°.

— Principios de sociología, trad. por Eduardo Cazorla. 2 tom. Madrid, *Caleja*, 1883. 16+488 p. 4°.

Swindell, J. G., and Burnell, G. R. Rudimentary treatise on wells and well-sinking. *Rev. ed.*; with a new appendix on the physics of water. London, *Lockwood*, 1883. 106 p. 12°.

Townsend, F. — Flora of Hampshire, including the Isle of Wight; or a List of the flowering plants and ferns found in the county of Southampton, with localities of the less common species. Illustrated with 2 plates and a map. London, *Reeve*, 1883. 544 p. 8°.

Triboulet, Maurice de. Cours de minéralogie générale et appliquée, professé à l'Académie de Neuchâtel (1877-82). Neuchâtel, *Berthoud*, 1883. 264 p., 16 pl. 8°.

Westwood, T. and Satchell, T. — *Bibliotheca piscatoria*; a Catalogue of books on angling, the fisheries and fish culture; with bibliographical notes and an appendix of citations touching on angling and fishing from old authors. London, *Satchell*, 1883. 410 p. 8°.

Williams, F. S. — Our iron roads; their history, construction and administration. With numerous illustrations. 2d ed., rev. London, *Bemrose*, 1883. 530 p. 8°.